Reply to Office Action of: 1/26/2006 Atty, Docket No.: JJK-0330 (P2002J098)

LISTING OF CLAIMS

- 1. (currently amended) A process for preparing a lubricating oil basestock having a VI of at least about 135 which comprises:
- (1) hydrotreating a lubricating oil feedstock having a wax content of at least about 60 wt.%, based on feedstock, with a hydrotreating catalyst under effective hydrotreating conditions such that less than 5 wt.% of the feedstock is converted to 650°F (343°C) minus products to produce a hydrotreated feedstock whose VI increase is less than [4] 3 greater than the VI of the feedstock;
- (2) stripping the hydrotreated feedstock to separate gaseous from liquid product; and
- (3) hydrodewaxing the liquid product with a dewaxing catalyst which is at least one of ZSM-48, ZSM-57, ZSM-23, ZSM-22, ZSM-35, ferrierite, ECR-42, ITQ-13, MCM-71, MCM-68, beta, fluorided alumina, silica-alumina or fluorided silica alumina- under catalytically effective hydrodewaxing conditions wherein the dewaxing catalyst contains at least one of Pt or Pd and hydrodewaxing produces a dewaxed product having a pour point of -17°C or less. Group 9 or Group 10 noble metal.
- 2. (original) The process of claim 1 wherein the hydrotreating catalyst contains at least one Group 6, Group 9 or Group 10 metal.
- 3. (original) The process of claim 1 wherein the hydrotreating conditions include a temperature of from 150-400°C, a pressure of from 1480-20786 kPa, a liquid hourly space velocity from 0.1-10 hr⁻¹ and a hydrogen treat rate of 89-1780 m³/m³.

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- 4. (cancelled)
- 5. (cancelled)
- 6. (cancelled)
- 7. (original) The process of claim 1 wherein hydrodewaxing conditions include a temperature of from 250-400°C, a pressure of from 791-20786 kPa, a liquid hourly space velocity from 0.1-10 hr⁻¹ and a hydrogen treat rate of 45-1780 m³/m³.
- 8. (original) The process of claim 1 wherein the dewaxing catalyst is sulfided, reduced, or sulfided and reduced.
- 9. (original) The process of claim 1 wherein hydrodewaxed liquid product from step (3) is hydrofinished under effective hydrofinishing conditions.
- 10. (original) The process of claim 9 wherein the hydrofinishing includes a hydrofinishing catalyst containing at least one Group 6, Group 9 or Group 10 metal.
- 11. (original) The process of claim 9 wherein the hydrofinishing includes a hydrofinishing catalyst which is a mesoporous catalyst from the M41S family.
- 12. (original) The process of claim 11 wherein the hydrofinishing catalyst contains at least one noble metal.
- 13. (currently amended) A process for preparing a lubricating oil basestock having a VI of at least about 125 which comprises:

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- (1) hydrotreating a lubricating oil feedstock having a wax content of at least about 50 wt.%, based on feedstock, with a hydrotreating catalyst under effective hydrotreating conditions such that less than 5 wt.% of the feedstock is converted to 650°F (343°C) minus products to produce a hydrotreated feedstock to produce a hydrotreated feedstock whose VI increase is less than [4] 3 greater than the VI of the feedstock;
- (2) stripping the hydrotreated feedstock to separate gaseous from liquid product;
- (3) hydrodewaxing the liquid product with a dewaxing catalyst which is at least one of ZSM-22, ZSM-23, ZSM 35, ferriorite, ZSM-48, ZSM-57, ECR-42, ITQ 13, MCM-68, MCM-71, beta, fluorided alumina, silica alumina or fluorided silica-alumina under catalytically effective hydrodewaxing conditions wherein the dewaxing catalyst contains at least one Group 9 or 10 noble-metal; of Pt or Pd and hydrodewaxing produces a dewaxed product having a pour point of -17°C or less, and
- (4) hydrofinishing the product from step (3) with a mesoporous hydrofinishing catalyst from the M41S family under hydrofinishing conditions.
- 14. (original) The process of claim 13 wherein the hydrotreating conditions include a temperature of from 150-400°C, a pressure of from 1480-20786 kPa, a liquid hourly space velocity from 0.1-10 hr⁻¹ and a hydrogen treat rate of 89-1780 m³/m³.
- 15. (cancelled)
- 16. (cancelled)
- 17. (cancelled)

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- 18. (original) The process of claim 13 wherein hydrodewaxing conditions include a temperature of from 250-400°C, a pressure of from 91-20786 kPa, a liquid hourly space velocity from 0.1-10 hr⁻¹ and a hydrogen treat rate of 45-1780 m³/m³.
- 19. (original) The process of claim 13 wherein the M41S family includes MCM-41, MCM-48 and MCM-50.
- 20. (original) The process of claim 19 wherein the M41S family is MCM-41.
- 21. (original) The process of claim 13 wherein hydrofinishing conditions include a temperature of from 150-350°C, a pressure of from 2889-20786 kPa, a liquid hourly space velocity from 0.1-5 hr⁻¹ and a hydrogen treat rate of 45-1780 m³/m³.
- 22. (original) The process of claim 13 wherein the dewaxing catalyst is sulfided, reduced, or sulfided and reduced.
- 23. (original) The process of claim 13 wherein the hydrotreating catalyst contains at least one Group 6, Group 9 or Group 10 metal.
- 24. (original) The process of claim 13 wherein the hydrofinishing catalyst contains at least one noble metal.
- 25. (original) The process of claim 24 wherein the noble metal is at least one of Pt or Pd.

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26. (currently amended) A process for preparing a lubricating oil basestock having a VI of at least about 135 which comprises:

- (1) hydrotreating a lubricating oil feedstock having a wax content of at least about 60 wt.%, based on feedstock, with a hydrotreating catalyst under effective hydrotreating conditions such that less than 5 wt.% of the feedstock is converted to 650°F (343°C) minus products to produce a hydrotreated feedstock to produce a hydrotreated feedstock whose VI increase is less than [4] 3 greater than the VI of the feedstock;
- (2) stripping the hydrotreated feedstock to separate gaseous from liquid product;
- (3) hydrodewaxing the liquid product with a dewaxing catalyst which is ZSM-48 under catalytically effective hydrodewaxing conditions wherein the dewaxing catalyst contains at least one of Pt or Pd Group 9 or 10 noble metal; and wherein hydrodewaxing produces a 370°C+dewaxed product in a yield of greater than 50 wt.%, based on feed to the hydrodewaxing and having a pour point of 17°C or less, and
- (4) hydrofinishing the product from step (3) with MCM-41 under hydrofinishing conditions wherein hydrofinished product has an aromatics content of about zero.
- 27. (original) The process of claim 26 wherein the hydrotreating conditions include a temperature of from 150-400°C, a pressure of from 1480-20786 kPa, a liquid hourly space velocity from 0.1-10 hr⁻¹ and a hydrogen treat rate of 89-1780 m³/m³.

28. (cancelled)

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29. (original) The process of claim 26 wherein the dewaxing catalyst is sulfided, reduced, or sulfided and reduced.

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- 30. (original) The process of claim 26 wherein hydrodewaxing conditions include a temperature of from 250-400°C, a pressure of from 791-20786 kPa, a liquid hourly space velocity from 0.1-10 hr⁻¹ and a hydrogen treat rate of 45-1780 m³/m³.
- 31. (original) The process of claim 26 wherein hydrofinishing conditions include a temperature of from 150-350°C, a pressure of from 2889-20786 kPa, a liquid hourly space velocity from 0.1-5 hr⁻¹ and a hydrogen treat rate of 45-1780 m³/m³.
- 32. (original) The process of claim 26 wherein the feedstock wax content is at least about 75 wt.%.
- 33. (original) The process of claim 26 wherein MCM-41 contains at least one of Pt or Pd.